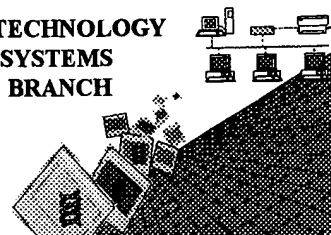# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

RECEIVED

Application Serial Number: ___09/974,870.4___

Source: ___1656___

Date Processed by STIC: ___4/24/02___

MAY 01 2002

TECH CENTER 1600/290L

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: **patin21help@uspto.gov** or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: **patin3help@uspto.gov** or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER
VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
> **http://www.uspto.gov/web/offices/pac/checker**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission
   User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
   Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   > Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
   2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office,
   Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

RECEIVED

MAY 0 1 2002

TECH CENTER 1600/2900

1656

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/974,870A

DATE: 04/24/2002 Error on p. 3
TIME: 14:16:08

Input Set : A:\1991-211.txt
Output Set: N:\CRF3\04242002\I974870A.raw

```
   3 <110> APPLICANT: Whitcombe, David
   4        Theaker, Jane
   5        Gibson, Neil
   6        Little, Stephen
   8 <120> TITLE OF INVENTION: Methods and Primers for Detecting Target Nucleic Acid
Sequences
  10 <130> FILE REFERENCE: 1991-211
  12 <140> CURRENT APPLICATION NUMBER: US 09/974,870A
  13 <141> CURRENT FILING DATE: 2001-10-12
  15 <150> PRIOR APPLICATION NUMBER: US 09/200,232
  16 <151> PRIOR FILING DATE: 1998-11-25
  18 <150> PRIOR APPLICATION NUMBER: UK 9812768.1
  19 <151> PRIOR FILING DATE: 1998-06-13
  21 <160> NUMBER OF SEQ ID NOS: 9
  23 <170> SOFTWARE: PatentIn version 3.0
  25 <210> SEQ ID NO: 1
  26 <211> LENGTH: 30
  27 <212> TYPE: DNA
  28 <213> ORGANISM: Artificial Sequence
  30 <220> FEATURE:
  31 <221> NAME/KEY: misc_feature
  32 <222> LOCATION: ()..()
  33 <223> OTHER INFORMATION: B2098-BRCA Scorpion Primer
  36 <220> FEATURE:
  37 <221> NAME/KEY: stem_loop
  38 <222> LOCATION: (1)..(29)
  40 <220> FEATURE:
  41 <221> NAME/KEY: misc_feature
  42 <222> LOCATION: (30)..(30)
  43 <223> OTHER INFORMATION: n = deoxyribouridine w/ fluorophore and replication blocker
  46 <400> SEQUENCE: 1
W--> 47 cgcacgatgt agcacatcag aagcgtgcgn                                    30
  50 <210> SEQ ID NO: 2
  51 <211> LENGTH: 29
  52 <212> TYPE: DNA
  53 <213> ORGANISM: Artificial Sequence
  55 <220> FEATURE:
  56 <221> NAME/KEY: misc_feature
  57 <222> LOCATION: ()..()
  58 <223> OTHER INFORMATION: R186-98, untailed equivalent of B2098 primer
  61 <400> SEQUENCE: 2
  62 ttggagattt tgtcacttcc actctcaaa                                       29
  65 <210> SEQ ID NO: 3
  66 <211> LENGTH: 30
```

```
 67 <212> TYPE: DNA
 68 <213> ORGANISM: Artificial Sequence
 70 <220> FEATURE:
 71 <221> NAME/KEY: misc_feature
 72 <222> LOCATION: ()..()
 73 <223> OTHER INFORMATION: Z3702, probe segment of B2098 primer
 76 <220> FEATURE:
 77 <221> NAME/KEY: stem_loop
 78 <222> LOCATION: (1)..(29)
 80 <220> FEATURE:
 81 <221> NAME/KEY: misc_feature
 82 <222> LOCATION: (1)..(1)
 83 <223> OTHER INFORMATION: fluoroscein dye
 86 <220> FEATURE:
 87 <221> NAME/KEY: misc_feature
 88 <222> LOCATION: (30)..(30)
 89 <223> OTHER INFORMATION: n = deoxyribouridine w/ fluorophore and replication blocker
 92 <400> SEQUENCE: 3
```
W--> 93 cgcacgatgt agcacatcag aagcgtgcgn   30
```
 96 <210> SEQ ID NO: 4
 97 <211> LENGTH: 18
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: ()..()
104 <223> OTHER INFORMATION: B2731 Scorpion primer
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: (1)..()
110 <223> OTHER INFORMATION: fluorescein dye
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (18)..(18)
116 <223> OTHER INFORMATION: n = deoxyuridine w/ fluorophore and replication blocker
119 <400> SEQUENCE: 4
```
W--> 120 aggtagtgca gagagtgn   18
```
123 <210> SEQ ID NO: 5
124 <211> LENGTH: 31
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: ()..()
131 <223> OTHER INFORMATION: B2731 Scorpion primer
134 <400> SEQUENCE: 5
135 gagcctcaac atcctgctcc cctcctacta c                                     31
138 <210> SEQ ID NO: 6
139 <211> LENGTH: 17
```

```
    140 <212> TYPE: DNA
    141 <213> ORGANISM: Artificial Sequence
    143 <220> FEATURE:
    144 <221> NAME/KEY: misc_feature
    145 <222> LOCATION: ()..()
    146 <223> OTHER INFORMATION: B4249 Scorpion primer
    149 <220> FEATURE:
    150 <221> NAME/KEY: misc_feature
    151 <222> LOCATION: (1)..(1)
    152 <223> OTHER INFORMATION: fluoroscein dye
    155 <220> FEATURE:
    156 <221> NAME/KEY: misc_feature
    157 <222> LOCATION: (17)..(17)
    158 <223> OTHER INFORMATION: attached replication blocking hexethylene glycol monomer
    161 <400> SEQUENCE: 6
    162 aggtagtgca gagagtg                                                17
    165 <210> SEQ ID NO: 7
    166 <211> LENGTH: 19
    167 <212> TYPE: DNA
    168 <213> ORGANISM: Artificial Sequence
    170 <220> FEATURE:
    171 <221> NAME/KEY: misc_feature
    172 <222> LOCATION: ()..()
    173 <223> OTHER INFORMATION: Quencher oligonucleotide
    176 <220> FEATURE:
    177 <221> NAME/KEY: misc_feature
    178 <222> LOCATION: (18)..(18)        → n is not at position 18!
    179 <223> OTHER INFORMATION: n = deoxyribouridine with attached non-fluorogenic
fluorophore
    182 <400> SEQUENCE: 7
W--> 183 cactctcctg cactacctn                                             19
    186 <210> SEQ ID NO: 8
    187 <211> LENGTH: 28
    188 <212> TYPE: DNA
    189 <213> ORGANISM: Artificial Sequence
    191 <220> FEATURE:
    192 <221> NAME/KEY: misc_feature
    193 <222> LOCATION: ()..()
    194 <223> OTHER INFORMATION: ARMS primer R284-97
    197 <400> SEQUENCE: 8
    198 ttcggggctc cacacggcga ctctcaac                                    28
    201 <210> SEQ ID NO: 9
    202 <211> LENGTH: 28
    203 <212> TYPE: DNA
    204 <213> ORGANISM: Artificial Sequence
    206 <220> FEATURE:
    207 <221> NAME/KEY: misc_feature
    208 <222> LOCATION: ()..()
    209 <223> OTHER INFORMATION: ARMS primer R283-97
    212 <400> SEQUENCE: 9
```

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/974,870A**

DATE: 04/24/2002
TIME: 14:16:08

Input Set : **A:\1991-211.txt**
Output Set: **N:\CRF3\04242002\I974870A.raw**

213 ttcggggctc cacacggcga ctctcaag   28

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/24/2002
PATENT APPLICATION: US/09/974,870A   TIME: 14:16:09

Input Set : **A:\1991-211.txt**
Output Set: **N:\CRF3\04242002\I974870A.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 30
Seq#:3; N Pos. 30
Seq#:4; N Pos. 18
Seq#:7; N Pos. 19

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/974,870A

Input Set : **A:\1991-211.txt**
Output Set: **N:\CRF3\04242002\I974870A.raw**

```
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
```